

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1 1. (Currently Amended) An electrode structure comprising a first
2 catalytic component and a second catalytic component, wherein:
- 3 (a) said first catalytic component comprises one or more electrocatalyst(s)
4 of formula Pt-Y, wherein Y is Mo, W or an oxide of Mo or W; and
- 5 (b) said second catalytic component comprises one or more
6 electrocatalyst(s) of formula Pt-M, where M is a metal alloyed with the
7 platinum and is one or more metals selected from the group consisting
8 of Ru, Rh, Ti, Cr, Mn, Fe, Co, Ni, Cu, Ga, Zr, Hf and Sn; and
- 9 wherein the first and second catalytic components are in ionic contact with each
10 other.
- 1 2. (Currently Amended) An electrode structure according to claim 12
2 wherein X is selected from the group consisting of Ru, Mn, Co, Ni, and Rh.
- 1 3. (Previously Presented) An electrode structure according to claim
2 1, wherein M is selected from Ru or Rh.
- 1 4. (Currently Amended) An electrode structure according to claim 1,
2 wherein the first catalytic component is selected from the group consisting of:
3 Pt/Mo, Pt/Mo/Co, Pt/W/Co, Pt/Ru/WO₃ and Pt/Ti/W; and the second catalytic
4 component is Pt/Ru.
- 1 5. (Previously Presented) An electrode comprising an electrode structure
2 according to claim 1 wherein the electrocatalyst materials are present on one side of
3 a gas diffusion material.

1 6. (Previously Presented) A catalysed membrane comprising an electrode
2 structure according to claim 1 wherein the electrocatalyst materials are present on
3 one side of a polymer electrolyte membrane material.

1 7. (Previously Presented) An MEA comprising an electrode structure
2 according to claim 1.

1 8. (Previously Presented) An electrode according to claim 5, wherein the
2 two catalyst materials are formulated into two separate layers.

1 9. (Previously Presented) An electrode according to claim 5, wherein the
2 two catalyst materials are formulated into one mixed layer.

1 10 (Currently Amended) A fuel cell comprising an electrode structure,
2 comprising a first catalytic component and a second catalytic component,
3 characterised in that the first catalytic component comprises one or more
4 electrocatalyst(s) of formula Pt-Y where Y is Mo, W, or an oxide of Mo or W, and the
5 second catalytic component comprises one or more electrocatalyst(s) of formula Pt-
6 M, where M is a metal alloyed with the platinum and is one or more metals selected
7 from the group consisting of Ru, Rh, Ti, Cr, Mn, Fe, Co, Ni, Cu, Ga, Zr, Hf and Sn,
8 and wherein the first and second catalytic components are in ionic contact with each
9 other.

11. (Canceled)

1 12. (Currently Amended) An electrode structure according to claim 1
2 wherein said first catalytic component comprises a third metal component X which is
3 alloyed with the platinum and which is one or more metals selected from the group
4 consisting of Ru, Rh, Ti, Cr, Mn, Fe, Co, Ni, Cu, Ga, Zr, Hf and Sn.

1 13. (Previously Presented) A catalysed membrane according to claim 6
2 wherein the two catalyst materials are formulated into two separate layers.

1 14. (Previously Presented) A catalysed membrane according to claim 6
2 wherein the two catalyst materials are formulated into one mixed layer.

1 15. (Previously Presented) An MEA according to claim 7 wherein the two
2 catalyst materials are formulated into two separate layers.

16. (Canceled)

1 17. (Previously Presented) An MEA according to claim 7 wherein the two
2 catalyst materials are formulated into one mixed layer.

1 18. (Previously Presented) A fuel cell according to claim 10 wherein said
2 first catalytic component comprises a third metal component X which is alloyed with
3 the platinum and which is one or more metals selected from the group consisting of
4 Ru, Rh, Ti, Cr, Mn, Fe, Co, Ni, Cu, Ga, Zr, Hf and Sn.
